(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 24 June 2004 (24.06.2004)

(10) International Publication Number WO 2004/053061 A3

A61K 39/38. (51) International Patent Classification7: 48/00, C07K 16/00

(21) International Application Number:

PCT/US2003/037907

(22) International Filing Date:

25 November 2003 (25.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/304,234 26 November 2002 (26.11.2002)

(71) Applicant (for all designated States except US): NU-VELO, INC. [US/US]; 675 Almanor Avenue, Sunnyvale, CA 94085 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): EMTAGE, Peter, C., R. [CA/US]; 879 S. Knickerbocker Drive, Sunnyvale, CA 94087 (US).

(74) Agent: QUERTERMOUS, Elena; NUVELO, Inc., 675 Almanor Avenue, Sunnyvale, CA 94085 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 29 December 2004
- (15) Information about Correction: **Previous Correction:**

see PCT Gazette No. 33/2004 of 12 August 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF THERAPY AND DIAGNOSIS USING TARGETING OF CELLS THAT EXPRESS LAX

(57) Abstract: Certain cells are capable of expressing LAX RNA. Targeting using LAX polypeptides, nucleic acids encoding for LAX polypeptides and anti-LAX antibodies, peptides and small molecules provides a method of killing or inhibiting the growth of cells that express the LAX protein. Methods of therapy and diagnosis of disorders associated with LAX protein-expressing cells are described.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/37907

	·					
	SSIFICATION OF SUBJECT MATTER					
IPC(7) : A61K/39/38, 48/00; CO7K 16/00						
US CL : 514/2, 44; 424/93.2, 184.1;530/387.1						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols)						
U.S. : 514/2, 44; 424/93.2, 184.1;530/387.1						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
became manifest and infinitely documentation to the extent that such documents are included in the needs searched						
Floring the language of the state of the sta						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
SEQUENCE DATABASES, MEDLINE, BIOSIS, EMBASE, CAPLUS						
·						
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
				Relevant to claim No.		
P, X				1-4, 7		
	The production of the producti					
P, Y	277, No. 48, pages 46151-46158. See particularly the left column of page 46152.			. 5, 6, 18-22		
			•			
Y	discovery. Genom Res. 1996, Vol. 6, pages 791-806. The disclosed mRNA sequence			1-7, 18-21		
A	CF136957 of the reference comprises instant SEQ ID No: 4.			. 8-17		
			- 1	. 4		
!			i	i		
			1	•		
			1			
			1			
			j			
			1	j j		
				,		
]			
				}		
		·	-	. 1		
			1	*** *		
Further	documents are listed in the continuation of Box C.	See patent family	annex	ł		
- 8	pecial categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the				
"A" document	defining the general state of the art which is not considered to be	principle or theory une				
of particu	lar relevance		• -	• [
"E" earlier application or patent published on or after the international filing date document of particular relevance; the classifier considered novel or cannot be considered novel or cannot be considered.				claimed invention cannot be		
В сыпстыр	promised to putting the international fitting that	when the document is		ed to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)						
				claimed invention cannot be		
specified)				when the document is documents, such combination		
"O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person						
"P" document	sublished prior to the intermedianal filling days how have then the	* 4.9		Ì		
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed						
·						
Date of the a	ctual completion of the international search	Date of mailing of the international search report				
Of October 3	2004 (01-10-2004)	2 S OCT 2004				
01 October 2004 (01.10.2004) Name and mailing address of the ISA/US		Authorized officer				
	il Stop PCT, Aun: ISA/US	Addition Confeet	0 1	1 1 -		
Commissioner for Patents		Q. Janice Li F. Roberts 401				
P.O. Box 1450		701				
	xandria, Virginia 22313-1450	Telephone No. (571) 272-	1600	•		
		Facsimile No. (703) 305-3230				

Form PCT/ISA/210 (second sheet) (July 1998)